

EPS SSR-2

POWER BUS LOSS: RPDA NIRS2 (Includes RPCMs N1RS2 A, B, C and Z13B A, B)

ACTION	EQUIP/FUNCTION LOST	CREW INDICATION	NOTES
<p>1 PCS Node1: C&DH: MDM_N1-1</p> <p>Primary NCS MDM</p> <p>√State - Primary If no telemetry √MCC-H</p> <p>FGB EPS FGB:EPS</p> <p>If RACU5 - On Perform RACU 5 Deactivate procedure (SODF: EPS)</p> <p>If during Node 1 Pre-Ingress Warm-up, Ingress, or Post Egress Dryout</p> <ul style="list-style-type: none"> √ MCC-H for heater configuration <p>Node1:TCS NODE1:TCS</p> <p>'Node 1'</p> <ul style="list-style-type: none"> • sel Node 1 Htr [X] A [X] = [1] [2] [3] [4] [5] [6] [7] [8] [9] • cmd Ena Opr Execute • Repeat <p>Node 1: TCS NODE1:TCS</p> <p>'PMA 1'</p> <ul style="list-style-type: none"> • sel PMA1 [X] A [X] = [1] [3] [4] [5] [7] • cmd Ena Opr Execute • Repeat <p>Z1:EPS RPCM Z13B B</p> <ul style="list-style-type: none"> • sel RPC 15 • cmd Close Execute 	<p>N1-2 MDM MDM N1-1 Srv Htr</p> <p>RPCM N1RS2 A (Type V) RPCM N1RS2B (Type V) RPCM N1RS2C (Type V) Control of RPCM N13B A Control of RPCM N13B B Control of RPCM N13B C RPCM Z13B A (Type VI) RPCM Z13B B (Type V)</p> <p>Node1 Shell Htrs String B PMA1 Shell Htrs String B PMA3 Shell Htrs Strings A & B SPDA Z14B Htr 1 SPDA Z13B Htr 2 CMG 1 E xt Htr CMG 4 Ext Htr PCU 2 Htr DDCU Z14B Htr 2 DDCU Z13B Htr 1 EEATCS Non-op Htr A-1</p>	<p>Caution Messages:</p> <p>MDM N1-1 Detected RT Fail MDM N1-2 - PMA 1</p> <p>Advisory Messages:</p> <p>RPCM N1RS2_A Loss of Comm - NOD1 RPCM N1RS2_B Loss of Comm - NOD1 RPCM N1RS2_C Loss of Comm - NOD1 RPCM Z13B_A Loss of Comm - Z1 RPCM Z13B_B Loss of Comm - Z1 MDM N1-1 Loss of Sync to MDM N1-2 - PMA 1</p> <p>Telemetry:</p> <p>PCS FGB:EPS FGB:EPS</p> <p>RACU Details</p> <p>RACU 5 Converter - Off RACU 5 Output Current < 1 Amp</p> <p>RACU 5 Output Voltage ~ 0 volts</p> <p>NODE 1: EPS</p> <p>RPCM N1RS2 A - not Active RPCM N1RS2 B - not Active RPCM N1RS2 C - not Active</p> <p>Z1: EPS</p> <p>RPCM Z14B A - not Active RPCM Z14B B - not Active</p>	<p>① Both MDMs are nominally active. In the event of loss of the primary MDM, the alternate MDM will automatically transition to primary.</p> <p>② EEATCS, CMG and PCU heaters are not redundant, possible loss of equipment. PCU is powered to provide some heat. String B of the Node 1 and PMA 1 shell heaters are nominally primary. PMA3 heaters are required to prevent condensation. Does not impact 3A or jeopardize 4A/5A since PMA3 goes to vacuum after Shuttle departs.</p> <p>③ Since the The internal Early Comm equipment is lost, the entire Early Comm system is lost. Power to the Port and Stbd antenna is removed.</p> <p>④ Normally the CBMs are powered off.</p> <p>⑤ The RACU indications will only be valid, if the bus failure is due to a RACU failure.</p>
<p>3 Node1:EPS:RPCM N1RS1 RPCM NIRS1 C</p> <ul style="list-style-type: none"> • sel RPCM Detail • sel RPC [X], [X] = [5] [12] • cmd Open Execute • Repeat <p>(Continued)</p>	<p>3 CBM N1 Stbd Pri 1 (Early Comm Transceiver Pwr & Htr)</p> <p>4 CBM N1 Stbd Pri 2 (Early Comm Spare) CBM N1 Stbd Pri 3 (Early Comm CTP) CBM N1 Stbd Pri 4 (Early Comm RFPDB)</p> <p>(Continued)</p>		<p>(Continued)</p>

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4	CBM N1 Port Pri (1---4)		
	Nod1-2 SDO Card 1A: MDM N1-1 Opr Htr		
	N1-2 SDO Card 1B		
	CMG 1 CMG 4		
	PCU 2		